CONTENTS

Number 1

R. D. Harding, S. W. Lay, H. Moule and D. A. Quinney	1	Multimedia interactive mathematics courseware: the mathematics experience within the Renaissance Project
Ian Moffatt and Jon Greenman	25	The use of computing in Scottish schools: a preliminary survey
M. C. Er	31	Process frame: a cognitive device for recursion comprehension
Susan Wiedenbeck and Jean Scholtz	37	Introducing undergraduates to research: a case study from the field of human–computer interaction
A. Alberto Silva	51	Energy in electrical circuits: a computer assisted approach
Kazuyoshi Hidaka	59	User-interface of a tool for learning geometry
Software Review	67	
Book Reviews	69	

Number 2

S. Ian Robertson, Judith Calder, Pat Fung, Ann Jones and Tim O'Shea	73	Computer attitudes in an English secondary school
Justin Watkins, John Davies, Gayle Calverley and Tony Cartwright	83	Evaluation of a physics multimedia resource
Johan P. Du Plessis, Judy A. Van Biljon, C. Janse Tolmie and Thomas Wollinger	89	A model for intelligent computer-aided education systems
J. Anthony Seikel, David G. Drumright, Margery M. Whites and Paula J. Seikel	107	A "hands-on" approach to speech science
Irina Zheliazkova	117	An intelligent system for teaching and learning algorithms

R. D. Harding, S. W. Lay, H. Moule and D. A. Quinney 127 A mathematical toolkit for interactive hypertext courseware: part of the mathematics experience within the Renaissance Project

Book Reviews 137

Announcement I

Number 3

EDUCATION AND THE INTERNET

Wendy A. Kellogg and Dennis W. Viehland v Preface

DISTANCE LEARNING VIA THE INTERNET

Kazuo Watabe, Matti Hamalainen and Andrew B. Whinston 141 An Internet based Collaborative Distance Learning System: CODILESS

David G. Novick and Stephen Fickas 157 Collaborative networked hypermedia education: lessons from the NERO project

ENHANCING CURRICULUM WITH THE INTERNET

James Ambach, Corrina Perrone and Alexander Repenning 163 Remote exploratoriums: combining network media and design environments

Patricia S. Kuntz 177 Swahili-L: the Internet promotes literacy

SCHOLARLY COMMUNITIES ON THE INTERNET

Zane L. Berge and Mauri Collins 183 Computer-mediated scholarly discussion groups

Eric D. Friedman, Lisa Haefele, K. M. Keating, Mark Mullen, Mark Patrick, David Plotkin and Ellen Strenski 191 An electronic discussion list in an undergraduate writing course

Ann D. Yakimovicz and Karen L. Murphy 203 Constructivism and collaboration on the Internet: case study of a graduate class experience

THE INTERNET FROM A K-12 PERSPECTIVE

Rebecca Eurich-Fulcer and Janet Ward Schofield 211 Wide-area networking in K-12 education: issues shaping implementation and use

Lynne Schrum 221 Educators and the Internet: a case study of professional development

Gail Clark Futoran, Janet Ward Schofield and Rebecca Eurich-Fulcer 229 The Internet as a K-12 educational resource: emerging issues of information access and freedom

SUPPORTING TEACHERS VIA THE INTERNET

Gerry Stahl, Tamara Sumner and Robert Owen 237 Share globally, adapt locally: software assistance to locate and tailor curriculum posted to the Internet

William Spitzer and Kelly Wedding 247 LabNet: an international electronic community for professional development

Book Review 257

Number 4

George Long, Harry Pence and Theresa Julia Zielinski 259 New tools vs old methods: a description of the CHEMCONF '93 discussion

Bunny J. Tjaden and C. Dianne Martin 271 Learning effects of CAI on college students

D. R. McIntyre, Hao-Che Pu and Francis G. Wolff 279 Use of software tools in teaching relational database design

James A. DuPlass 287 Teaching software: is the supervised laboratory effective?

Y. F. Chan, H. K. Ma, F. T. Chan, H. Y. Chen and T. Y. Chen 293 Teaching family planning with expert system

G. A. Mooney, R. T. Edwards, A. G. Deakin, L. B. Carp and R. Rada 299 Computer assisted education in health economics for medical advisers

Software Review 313

Book Reviews 317